

Beat: Technology

## NAVYA - Providing Fluid Mobility With AUTONOMOUS SHUTTLES And CABS

### Specialist In Driverless Vehicles

PARIS, 09.11.2017, 07:27 Time

**USPA NEWS** - NAVYA is a French Company specialising in developing Innovative, Smart and Sustainable Mobility Solutions. NAVYA develops Driverless, Automated and Electric Vehicles that are designed for the Intelligent Transport of People and Goods on the First and Last Mile....

NAVYA is a French Company specialising in developing Innovative, Smart and Sustainable Mobility Solutions. NAVYA develops Driverless, Automated and Electric Vehicles that are designed for the Intelligent Transport of People and Goods on the First and Last Mile. The Aim of these Autonomous Vehicles, Independent of all Infrastructure, is to revolutionize the Mobility and Productivity of Citizens and Employees on Private Sites. NAVYA has been providing its self-driving NAVYA ARMA Shuttle since September 2015.

The Company has established itself as a Specialist in the Field, renowned for using the Complex Technology that is a Combination of Software Expertise, Automobile Construction and advanced Techniques in Navigation, Geolocation and Telecommunication. According to a UN Study, by 2050, 70% of the World's Population will be living in Towns and Cities and Traffic Flow will reach Saturation Point. Public Transport is a Solution to these Problems but in spite of Concerted Efforts to improve Mobility, it falls short when it comes to «Last Mile» Zones with Individual needs that are more difficult to manage.

- Key information and figures about NAVYA :

- \* Worldwide Presence
- \* 220,000+ engineering man-hours (September 2017)
- \* 150+ People in the NAVYA team (September 2017)
- \* 30 million Euro increase in Capital (October 2016)
- \* Strategic Agreements signed with Key Partners (October 201 : VALEO (Technology Partnership), KEOLIS (Deployment Partnership), GROUP8 (Distribution Partnership)
- \* 50 Vehicles deployed Worldwide (September 2017)
- \* Deployments in Australia, Austria, China, Denmark, France, Japan, New Zealand, Singapore, Switzerland, USA
- \* More than 200,000 Passengers transported (September 2017)

- Missions of NAVYA :

- \* To Improve Service on the First and Last Mile
- \* To Increase the Density of the Transport System
- \* To Serve New Areas thanks to a New Economic Model

Using Driverless Vehicles will drastically reduce the Number of Deaths on the Road in Years to come. A Study carried out by KPMG estimates that 30,000 Fewer People will be taken to Hospital each year which represents a saving of 4 Billion Euros. Driverless Vehicle Technology is Reliable, Fatigue Resistant and does not depend on Human Alcohol Consumption. Reaction Times are also shorter and the Highway Code is strictly adhered to.

The AUTONOM SHUTTLE is the Driverless, Safe, Reliable and Comfortable Public Transport Vehicle developed and built by NAVYA. The Shuttle is 100% Electric and can carry up to 15 People. The AUTONOM SHUTTLE has been designed to satisfy the specific needs of a Driverless Vehicle whilst optimizing on Navigation and Safety Functions. Its efficient Guidance Systems combine many Different Types of Technology including Lidars, Stereovision Cameras, GPS RTK, IMU and Odometry. The Vehicle is equipped with the latest Generation in Sensors to enable it to find its way around and navigate effectively. Lidars, Cameras, GPS RTK, IMU and Odometry enable the AUTONOM SHUTTLE to position itself to within a few centimetres from the desired Target and to identify Obstacles on the Road (fixed such as Posts, or mobile such as Pedestrians) or signage in both Daylight and at Night Time.

- Operating Services in CITIES

\* Navly in Lyon-France : Two AUTONOM SHUTTLES are operating on the open road in the City of Lyon, carrying People next to the River. The Route is 1.3 kilometres long with Five Stops that serve different Areas of the District.

\* CarPostal in Sion-Switzerland : Two AUTONOM SHUTTLES are operating in Sion's Town Centre in real traffic conditions. PostBus (CarPostal), the leading Bus Company in Switzerland's Public Transport Network, offers Residents and Visitors the possibility to be carried by Driverless Shuttles every day except on Monday.

\* Rac intellibus in Perth-Australia : An AUTONOM SHUTTLE is operating on the Open Road in Perth. Thanks to the shuttle, the Royal Automobile Club of Australia is helping Members of the Community, Government and the Industry itself to consider the potential Impact and Opportunities of Automated Vehicle Technology.

\* Autonomous Shuttles La Défense in Paris La Defense-France. Three AUTONOM SHUTTLES are circulating all week long, in the most visited Business District in Europe! The Three Autonomous Shuttles are operating on three different Tracks in order to cover the District of La Défense which hosts more than 500 000 Visitors daily.

- Operating Services on PRIVATE SITES :

\* Mcity in Michigan-USA. In Ann Arbor (USA), NAVYA has joined forces with the University of Michigan's Mobility Transformation Center (MTC) to bring the First AUTONOM SHUTTLE, 100% Driverless, completely Electric Autonomous Shuttle Vehicle to the United States at Mcity, the University of Michigan's world renowned Research Center and proving ground for Autonomous Vehicles, making it the only European Shuttle bus on the Site.

\* SB Drive in Tokyo-Japan. SB Drive, a subsidiary of SoftBank Corp., acquired Two AUTONOM SHUTTLES in order to conduct Social Trials of self-driving Technologies in Japan. SB Drive currently has Smart Mobility Partnership Agreements with four Japanese Municipalities.

\* Nanyang Technological University in Nanyang-Singapore. In Singapore, one AUTONOM SHUTTLE Vehicle, acquired by the Nanyang Technological University, is operating on its Campus. The Vehicle could soon be deployed on a wider scale to include Tourist Destinations and Industrial Parks. NAVYA and NTU signed a Partnership Agreement highlighting the Collective Goals of both Parties to promote Projects and Programmes linked to Autonomous Vehicles.

\* Christchurch Airport in Christchurch- New Zealand. An AUTONOM SHUTTLE is operating on the Airport's Private Roads to experiment how Driverless Vehicles will transform Passengers' Experience. The Purpose then is to shift to Public Roads to link Key Areas around the Airport. HMI Technologies, a World Leader in Smart Transport Systems and the International Airport of New Zealand's second biggest City, Christchurch, are leading this two year Trial.

\* WKCDA in Hong-Kong-China. In Hong Kong, Residents and Visitors of West Kowloon Cultural District Authority (WKCDA) have the Opportunity to ride aboard one AUTONOM SHUTTLE which circulates in the Nursery Park. The aim of the WKCDA is to provide barrier-free access and facilities for all and the AUTONOM SHUTTLE provides street-level Pedestrian Connectivity within the District.

- With AUTONOMS : AUTONOM SHUTTLE as a shuttle service and AUTONOM CAB, for on-demand Journeys, NAVYA is offering a continuous and more efficient Mobility Experience. Mobility is more fluid. In 2017, NAVYA launched AUTONOM CAB. Autonomous, personalized and shared, this Unique Mobility Solution provides an Answer to Urban Mobility's major Challenges.

At the heart of the Smart City, AUTONOM CAB provides an Intelligent Transport Service for Individual Trips in Urban Centers. The Cab was designed from the Outset to be Autonomous, just like all the Vehicles in the AUTONOM range, meaning that there is no Cockpit, Steering Wheel nor Pedals. Able to carry 1 to 6 Passengers, AUTONOM CAB is a Fluid, Continuous and Effective Solution that answers User Expectations in terms of Service before, during and after their Trip. Available as either a Private or Shared Service, AUTONOM CAB places an emphasis on well-being and comfort. On board, Passengers can for example choose to work, benefiting from fully Connected Technology, or partake in an Interactive Cultural Visit of the City. They can also choose a Playlist, or buy their Cinema or Museum Tickets. In the short term, AUTONOM CAB will offer a wide range of Services to restore Freedom of Mobility.

Source : "GO World Premiere" of NAVYA AUTONOM @ Cité Du Cinéma (Saint-Denis-France) on November 7, 2017. With the presence of CEO Christophe SAPET.

NAVYA AUTONOMS are GO ! The AUTONOM Era : Working Towards A More Fluid World.

Ruby BIRD

<http://www.portfolio.uspa24.com/>

Yasmina BEDDOU

<http://www.yasmina-beddou.uspa24.com/>

**Article online:**

<https://www.uspa24.com/bericht-12338/navya-providing-fluid-mobility-with-autonomous-shuttles-and-cabs.html>

**Editorial office and responsibility:**

V.i.S.d.P. & Sect. 6 MDSIV (German Interstate Media Services Agreement): Ruby BIRD & Yasmina BEDDOU (Journalists/Directors)

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**Editorial program service of General News Agency:**

UPA United Press Agency LTD

483 Green Lanes

UK, London N13NV 4BS

contact (at) unitedpressagency.com

Official Federal Reg. No. 7442619